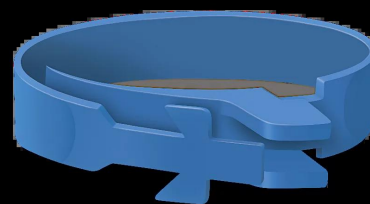


Pipe-seal

Hydro-expansive elastic gasket for sealing through-pipes in concrete structures



Drykos® **Pipe-seal** is a “belt-type” hydro-expansive elastic gasket, made of special water-reactive rubber, designed for the waterproof sealing of pipes passing through masonry, walls, and concrete structures. Upon contact with water, the hydro-expansive material progressively increases its volume, developing a confinement pressure against the surrounding concrete and the external surface of the pipe. In this way, it helps to seal discontinuities that may form in the pour at the through-pipes, preventing the formation of preferential infiltration paths along the pipe-concrete interface.

Thanks to its preformed geometry and interlocking mechanical closure system, Drykos® **Pipe-seal** can be installed quickly directly onto the pipe before the pour, without additional processing and without the need for complex adhesives or fixings.

The product is available in different sizes, suitable for pipes with approximate diameters of 70-90 mm, 110-125 mm, and 160-200 mm.

CHARACTERISTICS

Main characteristics

- Rapid installation directly onto the through-pipe
- Preformed system with interlocking closure
- Does not require complex additional processing
- Volumetric expansion upon contact with water
- Approximate hydro-expansive capacity 250–300%
- Hydraulic pressure resistance up to 5 bar
- Alkali-resistant material, suitable for contact with concrete
- Compatible with concrete, prefabricated, plastic, and steel supports
- Suitable for new constructions and integrated pour waterproofing systems

Fields of use

- Pipe penetrations in concrete walls and slabs
- Underground structures (foundations, technical rooms, parking garages)
- Tanks, reservoirs, and hydraulic works
- Civil and industrial installations
- Sewer systems and drainage networks
- Protection against water infiltration



SPECIFICHE TECNICHE

Packaging

Available for pipes with approximate diameters of 70-90 mm, 110-125 mm, and 160-200 mm.

Color

Blue.

Appearance

Hydro-expansive gasket.

Shelf life

24 months from production date.

Storage conditions

Store in the original intact packaging, in a cool, dry environment, protected from frost, humidity, and direct sunlight. Inadequate storage may cause a loss of product performance.

APPLICATION DATA

Theoretical consumption

1 gasket for each through-pipe to be sealed

Application temperature

Minimum +5 °C | Maximum +35 °C

APPLICATION INFO

Substrate preparation

Before installing Drykos® **Pipe-seal**, it is necessary to verify that the through-pipe is correctly sized relative to the selected gasket size.

The external surface of the pipe must be clean, stable, and free of dust, oils, greases, release agents, processing residues, or other substances that could compromise the correct contact of the gasket with the pipe. The gasket must be installed on an intact, non-deformed pipe free of marked irregularities in the positioning area. Any surface contamination must be removed before installation.

In the case of particularly smooth pipes or in the presence of critical site conditions, verify the stability of the gasket beforehand during the pouring phases, adopting compatible auxiliary fixing systems if necessary, without compromising the expansion capacity of the product.

Product preparation

Drykos® **Pipe-seal** is supplied ready to use and does not require preliminary preparation. Before installation, check the integrity of the gasket, the continuity of the hydro-expansive element, and the correct functioning of the interlocking closure system. The product size must be chosen based on the external diameter of the pipe to be sealed. Do not use gaskets that are not compatible with the pipe diameter, as incorrect sizing can compromise stability during the pour and the final seal of the system.



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Last update 05/08/2026

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Application

Drykos® **Pipe-seal** must be applied manually directly onto the through-pipe before the concrete pour. The gasket must be wrapped around the pipe and closed using the integrated interlocking system, ensuring it is stable, adherent, and correctly positioned along the entire circumference of the pipe.

Positioning must be carried out at the central area of the concrete section crossed by the pipe, so that the gasket is completely embedded in the pour and can develop its hydro-expansive action within the structure.

During the concrete pour, it is essential to avoid displacement, rotation, or misalignment of the gasket. The concrete must be correctly compacted around the pipe and the gasket to avoid the formation of voids, honeycombs, or discontinuities that could compromise the hydraulic seal of the system. After the concrete has hardened, in the presence of water or humidity, Drykos® **Pipe-seal** activates its expansion process, increasing in volume and contributing to the sealing of micro-discontinuities present along the pipe-concrete interface.

Other indications

- Always verify the correct match between the pipe diameter and the selected gasket size.
- Do not install the product on dirty, contaminated, deformed, or irregularly surfaced pipes in the installation area.
- Avoid prolonged contact with water before the pour, as premature activation of the hydro-expansive process can compromise the correct installation and the final seal of the system.
- The gasket must be completely embedded in the concrete and positioned stably before the pour. During the pour, ensure correct compaction of the concrete around the pipe, avoiding voids and honeycombs.
- Do not use as an exposed or unconfined external sealing element: the product must work by expansion under confinement within the concrete pour.
- In the presence of brackish water, chemically aggressive water, or special operating conditions, verify the suitability of the system beforehand.
- For anything not covered, contact Technical Support at +39 0171 1874992 or write to info@drykos.com

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Volumetric expansion in rainwater			300%
Volumetric expansion in alkaline environment			250%
Tensile strength			> 1.5 MPa
Elongation at break			> 350%
Hardness			35 Shore A
Density			1.22 ± 0.03 g/cm ³
Maximum hydraulic pressure			5 bar



ENVIRONMENT AND SAFETY

Safety

The product is classified as an article and, in accordance with Regulation (EC) No. 1907/2006 (REACH), does not require the preparation of a Safety Data Sheet. During handling and use, it is nonetheless recommended to use appropriate personal protective equipment, such as gloves and protective goggles, and to comply with the safety procedures established at the workplace.

Use

For professional use.

WARRANTIES AND LEGAL NOTES

Should the product be defective, the liability of Drykos S.r.l. shall be limited solely to its replacement. The information and instructions in this technical data sheet regarding the application and end-use of the products are provided in good faith and reflect current scientific and technical knowledge; however, they do not constitute any guarantee or assumption of liability regarding the final outcome of the work involving their use. Given the variety of operating conditions and external factors beyond the control of Drykos S.r.l. during execution, it is the user's responsibility to verify the product's suitability for the specific application, assuming all risks and liabilities. Drykos S.r.l. reserves the right to modify the properties of its products at any time. Always refer to the most recent version of the product's technical data sheet. This edition cancels and replaces all previous versions. The latest updated technical data sheets are available on our portal at www.drykos.com.



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